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The inventors have also demonstrated that the plant protein are biodegradable by monitoring the evolution of carbon dioxide when samples were subjected to soil, sand, compost, and manure systems, as well as from marine systems. Attached as Figure 14 is a graph illustrating the percent of carbon dioxide released relative to theoretical CO_2 (ThCO_2) from these systems using the composites of this invention (Soy protein/starch/glycerol, SCG plastic,) versus control. Figure 14 demonstrates that Applicant's plant protein composites are highly biodegradable as shown by the high amount of CO_2 produced.